9200226

TO ALL TO WHOM THESE: PRESENTS SHAME COME;

Farmers Marketing Corporation.

Withereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eignteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, R IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT LETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT.

United States seed of this variety (1) shall be sold by variety name only as OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Max'

In Testimony Withereof, I have hereunto set my hand and caused the seal of the Mant Variety Protection Office to be affixed at the City of Washington, D.C.

day of September the year of our Lord one thousand nine hundred and ninety-three.

Plant Variety Protection Office ultural Marketing Service

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #0581-0055), Washington, 20250.

FORM APPROVED: OMB 0581-0055, Expires 1/31/91

U.S. DEPARTMENT OF A AGRICULTURAL MARKE APPLICATION FOR PLANT VARIET	TING SERVICE	N CERTIFICATE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until
(Instructions on		CERTIFICATE	certificate is issued (7 U.S.C. 2426).
NAME OF APPLICANT(S) (as it is to appear on the Certificate)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME
Farmers Marketing Corporation		BA 7024	MAX
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)	0.0550	5. PHONE (Include area code)	FOR OFFICIAL USE ONLY
P.O. BOX 60578, Phoenix, AZ 8508 3501 E. Broadway Rd., Phoenix, AZ		(600) /27 /050	PVPO NUMBER
3301 E. Broadway Ru., Phoenix, AZ	63040	(602) 437-4058	9200226
	•		F Date
6. GENUS AND SPECIES NAME	7. FAMILY NAME (Botan	ical)	July 7,1992
Hordeum vulgare	Gramineae	,	N G
8. CROP KIND NAME (Common Name)	I o	DATE OF DETERMINATION	F Filing and Examination Fee:
Spring Feed Barley],	1988	E \$ 2150,00
			S Date
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGA	NIZATION (Corporation, pa	rtnership, association, etc.)	R July 7,1992
Corporation			C Optilicate/Fee:
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. D	ATE OF INCORPORATION	V Date
Arizona		5-1-85	5 Areg. 16, 1993
Rex K. Thompson, Plant Breeder P.O. BOX 60578 Phoenix, AZ 85082-0578 14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Foil a. X Exhibit A, Origin and Breeding History of the Variety. b. X Exhibit B, Novelty Statement. c. X Exhibit C, Objective Description of Variety. d. X Exhibit D, Additional Description of Variety.	P.O. Be Phoenix YOW INSTRUCTIONS ON POVE	R. Richardson, Presid DX 60578 c, AZ 85082-0578 PHONE (Include area coorse)	(602) 437-4058
e X Exhibit E, Statement of the Basis of Applicant's Ownersh	•		
 f. X Seed Sample (2,500 viable untreated seeds). Date Seed g. X Filing and Examination Fee (\$2,150) made payable to "1 			2-9 d.
 g. [A] Filing and Examination Fee (\$2,150) made payable to "1 15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SO 			as section 83(a) of the Plant Variaty
Protection Act.) X YES (If "YES," answer items 16 and 17 be		NO," skip to item 18 below).	so accion ocia, or me riam variety
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS NUMBER OF GENERATIONS?		O ITEM 16, WHICH CLASSES OF PRODU	CTION BEYOND BREEDER SEED?
NOMBER OF GENERATIONS?		UNDATION X REGIST	ERED X CERTIFIED
		UNDATION EXT REGIST	EVED WELLED
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VA	RIETY IN THE U.S.?	•	
YES (II "YES," through Plant Variety Protection Act	Patent Act. Give da	ate:}	
19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR M			o 4
YES (If "YES," give names of countries and dates) United No	States Oc	1. 1, 1991 AAA 16 per letter	Sept. 1993
20. The applicant(s) declare(s) that a viable sample of basic se		l be furnished with the application	on and will be replenished upon
request in accordance with such regulations as may be appl The undersigned applicant(s) is (are) the owner(s) of this wiferm and stable applicant in action 41 and in action	sexually reproduced		
uniform, and stable as required in section 41, and is entitle Applicant(s) is (are) informed that false representation here			i iant variety frotection Act,
SIGNATUBE OF APPLICANT (Owneds)	CAPACITY OR		DATE
Roya N. Richards		•	
Royce R. Richardson	Presi	dent, CEO	6-26-92
SIGNATURE OF APPLICANT JOY/10/(S)]	CAPACITY OR	TITLE	6-26-92 DATE 6-26-92
Rex K. Thompson	Plant	Breeder	6-26-92

FORM CSSD-470 (5-89) Edition of FORM LS-470, 3-86, is obsolere.

EXHIBIT "A" - ORIGIN AND BREEDING HISTORY

"Max" barley was derived from a short straw barley population developed and released by the USDA and the Experiment Stations of the University of Arizona and Montana State University as Composite Cross XXXII. CCXXXII originated from a male sterile facilitated recurrent selection program for short straw and lodging resistance. Formal seed distributions were made in 1976, 1978, 1981 and 1987 as the population was improved for wider ranges of adaptation, larger seed, increased straw strength, increased capacity for yield and disease resistance or tolerance. Max was increased by "best plant selection" from a single F_2 head selection to a F_7 head selection made in Montana in the Fall of 1987. The 1988 increase in Arizona was the basis of yield evaluation from 1989 - 1991. Remnant seed of the 1988 increase was increased in 1990 for the present designated breeder seed planted in Yuma, Arizona to produce certified foundation seed in 1991. Ninety-six head rows were grown at Maricopa, Arizona in 1991 to form the basis of the future Max foundation seed program.

Max barley in uniform and stable. Approximately .001% of plants in the foundation seed field were genetic male steriles. It is expected that up to .001% male sterile plants resulting from outcrossing on male sterile plants will be present in the subsequent generation. Headrowing for the continued foundation seed program may reduce or eliminate male sterility.

"Max" barley is most similar to Gustoe except for the following differences:

- 1) The aleurone layer of Max seed is colorless and that of Gustoe is blue.
- 2) Both varieties have glumes covered with hairs, hairs of Max are very short, Gustoe hairs are longer.
- 3) Gustoe glume and lemma awns are rough and those of Max are semi-smooth and smooth.
- 4) Hairiness of rachis edge Gustoe is well covered while only a very few hairs are on Max rachis edge.

In addition the following differences were noted in attached data tables:

	<u>Max</u>	<u>Gustoe</u>
Average yield for 19 location years (lbs. per acre)	5817	5417
Average kernel weight (grams per 1000 kernels)	40.6	38.8
Average plant height at maturity, 17 locations years (inches)	32.9	33.2
Average lodge rating for 18 location years (Rating 1-8)	2.7	4.0

FORM APPROVED: OMB NO. 40-R3822

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE COMMODITIES SCIENTIFIC SUPPORT DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C (Barley)

OBJECTIVE DESCRIPTION OF VARIETY BARLEY (HORDEUM VIII CARE)

NAME OF APPLICANTLY	
Farmers Marketing Corporation	FOR OFFICIAL USE ONLY
ADDRESS (Street and No. or R.F.D. No. Cliv State and FID Code)	9200226
P.O. BOX 60578, Phoenix, AZ 85082-0578 3501 E. Broadway Rd., Phoenix, AZ 85040	VARIETY NAME OR TEMPORARY OFFICE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OFFICE OF THE OFFICE OFFI
Place the appropriate number that describes the varietal character of this variety in the	MAX
Place a zero in first box (i.e. 0 8 9 or 0 9) when number is either 99 or less or	or less.
1. GROWTH HABIT:	
	1 - PROSTRATE 2 - SEMIPROSTRATE 3 - ERECT
2. MATURITY (50% Flowering):	
3 1 - EARLY (California Meriout) 2 - MIDSEASON (Betzes) 3 - LATE (Frontier)	
No. of days Earlier than 1 - BETZES 2 - CALIFORNIA MARIOUT	3 - CONQUEST 4 - DICKSON
1 No. of days Later than 8 5 - PIROLINE 6 - PRIMUS 7 - UNITAN	8 = Gustoe
3, PLANT HEIGHT (From soil level to top of head):	-
1 - SEMIDWARF 2 - SHORT (California Meriour) 3 - MEDIUM TALL (Betzee)	4 = TALL (Conquert)
0 1 Cm. Shorter than 8 1 - BETZES 2 - CALIFORNIA MARIOUT	3 - CONQUEST 4 - DICKSON
Cm. Taker than	8 = Gustoe
4. STEM:	:
3 Exertion (Flue to spike at maturity): 3 = 10 - 15 cm. 1 = 0 - 3 cm. 2 = 3 - 10 cm. Anthocyanin:	1 - ABSENT 2 - PRESENT
0 5 NO. OF NODES (Originating from node above ground)	
	1 - STRAIGHT 2 - SNAKY 3 - OTHER (Specify)
6. LEAF:	
Basel leaf sheath (seedling): 1 - GLABROUS 2 - PUBESCENT 2 Position of flag leaf	1 - DROOPING (at boot stage): 2 - UPRIGHT
3 Waxiness: 1 - ABSENT (Glossy) 2 - SLIGHTLY WAXY 2 1 MM. WIOTH (F	irst leaf below flag leaf)
3 0 CM. LENGTH (First leaf below flag leaf) 1 Anthocyanin in leaf	wheath: 1 - ABSENT 2 - PRESENT
. HEAD:	
2 Type: 1 - TWO-ROWED 2 - SIX-ROWED 2 Denuity: 3 - E	AX Z = ERECT (Not dense) RECT (Dense)
2 Shape: 1 - TAPERING 2 - STRAP 3 - CLAVATE 4 - OTHER (Specify) 2 Waxiness: 1 - Al	BSENT (Glossy) 2 = SLIGHTLY WAXY
1 NONE 2-ATTIG	: 1 - LACKING 2 - FEW 3 - COVERED
GLUME:	
2 Longth: 1 - 1/3 OF LEMMA 2 - 1/2 OF LEMMA 2 Hairs: 1 - NONE	2 - SHORT 3 - LONG
Hair covering: 1 - NONE 2 - RESTRICTED TO MIDDLE 3 - CONFINED TO BAND	4 - COMPLETELY COVERED
Awas: 1 - LESS THAN EQUAL TO LENGTH OF GLUMES 2 - EQUAL TO LENGTH O 3 - MORE THAN EQUAL TO LENGTH OF GLUMES	F GLUMES
Awn Surface: 1 - SMOOTH 2 - SEMISMOOTH 3 - ROUGH	4

5 Awn: 3 - St	VNLESS 2 - AWNLETS ON CENTRAL RO IORT ON CENTRAL ROWS, AWNLETS ON L DNG (longer than spike) 6 - HOODED		
2 Awn Surface: 1		OOTH 4 - ROUGH	
2 Teeth: A-ABS	ENT 2 - FEW 3 - NUMEROUS	2 Hair: 1 - ABS	SENT 2-PRESENT
2 Shape of base: 1	- DEPRESSION 2 - SLIGHT CREASE - TRANSVERSE CREASE	2 Rachilla Hairs:	1 - SHORT 2 - LONG
. STIGMA:			
Hairs: 1 - FEW	2 - MANY	• • • • •	
O. SEED:			
2 Type: 1 - NAK	ED 2 - COVERED	2 Hairs on Ventral	Furrow: 1 - ABSENT 2 - PRESENT
AI LEOVID:	ORT (8.0 mm.) 2 = SHORT TO MIDLONG DLONG TO LONG (9.0 - 10.5 mm.)		AIDLONG (8.5 - 9.5 mm.) LONG (10.0 mm.)
4 Wrinkling of hull:	1 - NAKED 2 - SLIGHTLY WRINKLED	3 - SEMIWRINKLE	D 4 - WRINKLED
1 Alcurone Color:	1 - COLORLESS (White or Yellow) 2 - BI	"UE	en e
0 0 PERCENT AB	ORTIVE	4 1 GMS. PER 1	000 SEEDS
1. DISEASE: (0 = Not	Fested, 1 = Susceptible, 2 = Resistant)		
0 SEPTORIA	1 NET BLOTCH moderate field resistance BACTERIAL BLIGHT	0 SPOT BLOTCH 0 COVERED SMUT	1 POWDERY MILDEW moderat field susceptibilit for FALSE LOOSE SMUT
2			
STEM RUST	l LEAF RUST moderate field susceptibili	0 SCA8	OTHER (Specify)
AY	0 BSMV	0 BYDV	OTHER (Specify)
GREEN BUG	ed, 1 = Susceptible, 2 = Resistant) O ENGLISH GRAIN APHID	0 CHINCH BUG	0 ARMYWORM
O GRASS HOPPERS	O CERIAL LEAF BETTLE	OTHER (Specify)	
·	(O GP O A	Ов Ос	· ;
HESSIAN FLY RA	CES OD OE	0 F 0 G	
L CHEMICAL (0 = Not T	ested, 1 = Susceptible, 2 = Resistant)		
0 DDT	OTHER (Specify)		
	RIETY MOST CLOSELY RESEMBLES THAT		NAME OF VARIETY
CHARACTER	NAME OF VARIETY	CHARACTER	Gustoe ///
Plant tillering Leaf size	Gustoe Gustoe	Seed size Coleoptile elongation	Gustoe
	Gustoe	Seedling pigmentation	Gustoe
Leaf color *			th Gustoe

in 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.

2. Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization, Pests, Agriculture Handbook No. 338, U.S. Dept. of Agriculture. pp. 61-84.

3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.
FORM LPGS 470-5 (8-80) (REVERSE)

9200226

April 2, 1993

Alan A. Atchley, Plant Variety Examiner Plant Variety Protection Office NAL Building Room 500 10301 Baltimore Blvd. Beltsville, MD 200705-2351

Subject: Plant Variety Application No. 9200226, Barley 'MAX'.

In response to your letter of December 7 1992 the following information requests are presented.

Application form Question 19.

MAX barley was approved for certification by the National Small Grain Variety Review Board on January 23, 1991. Date of release was October 1, 1991.

MAX barley has been observed to be stable and uniform since the original 1988 seed increase. Although the 1990 production exhibited .001% genetic male sterility, no male sterility was observed in the increase from head rows in 1992. Yield stability has been shown through four years of testing:

Arizona:

1989, Maricopa grain yield data resulted in MAX

at 108% of the established variety 'Gustoe'.

1989 - 1991 MAX yielded 106% of Gustoe.

1992, In four Arizona tests MAX grain yield was

109% of Gustoe.

California:

Yield data for 12 location years resulted in MAX

yields at 108% of Gustoe.

If additional information is desired please advise soon so data may be obtained from fields in April and May for meeting the June 8 deadline.

Sincerely,

Rex K. Thompson

Rex R Thompson

EXHIBIT "D" - ADDITIONAL DESCRIPTION

"Max" is an awned, six-rowed, semidwarf spring feed barley, especially adapted to the irrigated desert areas of Arizona and California and has performed well at Moses Lake, Washington, Aberdeen, Idaho and Fruita, Colorado. Yield for 19 location years in Arizona and California has been 7% more than the popular "Gustoe". Like Gustoe, it is relatively late in maturity, has a prostrate juvenile growth habit and short stiff straw.

Early growth of Max is slightly more prostrate, slower and darker green than Gustoe. Max maturity has averaged one day later than Gustoe with plant height at maturity one centimeter less. Max shows some tolerance to net blotch and is moderately susceptible to leaf rust. Field reaction to scald and powdery mildew is somewhat more moderate for Max than for Gustoe. Pigmentation may be found on the lemma of Max in the dough stage of growth.

Kernel weight in grams per m	Gustoe	39.8	43.2		1		;	41.5	37.8	45.0	38.0	44.5	34.2	31.9	40.6	37.7	36.9	37.3	38.3	38.0	38.4	38.8
Kernel	Max 	43.0	46.5	:	1	ł	ļ	44.8	39.5	42.8	42.2	45.8	37.0	37.5	37.8	37.4	38.8	40.8	38.5	40.8	39.9	40.6
est weight in lbs. per bu	Gustoe 53.0	51.0	54.5		****	51.5	51.0	52.2	49.1	52.5	50.0	55.1	48.8	50.0	50.2	50.3	52.5	53.2	51.3	50.8	51.1	51.4
Test weigh	<u>Max</u> 58.0	51.0	54.5	. 1	. 1	53.0	52.0	52.7	50.4	51.3	50.7	53.8	50.3	51.9	48.3	50.3	50.5	53.6	50.1	52.2	51.3	51.6
d in lbs. per acre	Gustoe 6469	6935	8093	6262	5227	5878	5016	6569	3730	1790	2930	6120	4080	4390	5260	4390	4680	6290	5340	5290	5024	5483
Yield in	<u>Max</u> 6990	6477	0006	8809	5873	6735	6250	6773	3350	7210	3290	5850	4740	5170	4980	3810	4600	7340	6200	0859	5275	5817
	Maricopa, AZ 1989	Maricopa, AZ 1990	Maricopa, AZ 1991	Yuma, AZ 1990	Yuma, AZ 1991	U of A - Maricopa 1990	U of A - Maricopa 1991	AVERAGE - ARIZONA	U of CA, Butte, CO 1990	Ğ,	U of CA, Sutter, CO 1990	À,	U of CA, Davis 1990	U of CA, Davis 1991	U of CA, Merced, CO 1990	U of CA, Merced, CO 1991	U of CA, Kings, CO 1990	U of CA, Kings, CO 1991	U of CA, Kern, CO 1990	U of CA, Kern, CO 1991	AVERAGE - CALIFORNIA	AVERAGE AZ-CA

SLE 2 - PLANT HEIGHT AND STANDABILITY AT MATURITY

ity	ł																						
odge Rating at Maturity	Gustoe	3.3	4.8	2.8	1.0	5.4	 3.5		7.3	5.	بر بر	1.0	5.0	0.8	× -	1.0	<u>.</u>	6.3	4.8	7.5	4.3	•	4.0
Lodge	Max	1.0	2.8	2.2	1.0	4.5	2.3		0.9	1.3	3.5	1.0	1.3	2.5	2.5	0.1	1.0	3.3	3.0	7.3	2.8	t	2.7
Height in inches	Gustoe	34	31	35	30	32	32.4		30	30	37	33	34	37	33	33	24	39	39	ı	33.5	•	33.2
Ħ	<u>Max</u>	30	31	36	30	36	38.8	-	31	27	34	56	34	. 98	35	36	21	36	39	1	32.5	Ç	57.9
	Maricona AZ 1080	Mailcopa, AZ 1969	Maricopa, AZ 1990	Maricopa, AZ 1991	U of AZ, Maricopa 1990	U of AZ, Maricopa 1991	AVERAGE - ARIZONA		U of CA, Butte, CO 1990	U of CA, Butte, CO 1991	U of CA, Meridian, CO 1990	U of CA, Meridian, CO 1991	U of CA, Davis 1990	U of CA, Davis 1991	U of CA, Merced, CO 1990	U of CA, Merced, CO 1991	U of CA, Kings, CO 1990	U of CA, Kings, CO 1991	U of CA, Kern, CO 1990	U of CA, Kern, CO 1991	AVERAGE - CALIFORNIA	OVERALL AVERAGE - 17	LOCATION YEARS

Rating scale for lodging: 1 = 0-3%, 2 = 4-14%, 3 = 15-29%, 4 = 30-49%, 5 = 50-69%, 6 = 70-84%, 7 = 85-95%, 8 = 96-100%.

aricopa, AZ 1989 25 24 aricopa, AZ 1990 34 33 aricopa, AZ 1991 27 27 of CA, Merced, CO 1990 68 67 of CA, Davis 1990 52 50 of CA, Davis 1991 60 59	10 50% headed after March 1 Gustoe UC 603 24 15 33 22 27 16 67 58 50 32 59 45	Max Max 84 84 80 80 87 87	Max Gustoe U	UC 603 72 67 72 91

														:																	
	REACTION			moderately susceptible		moderately resistant	moderately susceptible	moderately susceptible			moderately susceptible		registent		or o	susceptible		raciator	Testseate	resistant	recipion to the contract of th		moderately susceptible			moderate resistant		resistant	resistant		moderately resistant
	AVERAGE	(97.17)	1 10	(1.37)	1 20	(1 E9)	(1.36)	1.85		(1.92)	1.10	(1.10)	1.11	(2 30)	(2,65)	3.03	(1.05)	90	(1.00)	1.00	(1 00)	(2.15)	1.60		1.33	1.00	1.10	1.04	1.00	1.93	1.27
	KING KERN	1.5 1.0		-	<u> </u>	 	-	1.5		2.3 1.3	1.0	1.0	1.0	1	2.3	3.0	1.0 1.0	1.0	1.0	1.0	1	1.8	1.5			1.0	1.0	1.0	1	- 1.3	1.3
	MERCED	1.8	1.3	1	1	;	;	2.3	(3.6	1.3	;	;	{	;	3.3	1.0	1.0	1	!	. }	1	2.3	(1.3	1.0	;	;	1	;	1.5
OF TRIAL	DAVIS	1.3	;	1.8	1.5	;	2.0	1.8	(T.3	1	1.3	1.5	ł	3.5	2.8	1.0	1	1.0	1.0	;	1.8	1.0	, (c	Α.Τ.	}	1.0	1.0	ł	1.3	1.0
LOCATION O	SUTTER	1.3	1.0	ļ	1.0	1.0	2.3	!	, ,	? •	1.0	1	1.0	1.3	2.3		1.0	1.0	!	1.0	1.0	3.5	1	, (,	? (P.6	i	1.0	1.0	2.8	
	BUTTE	3,3	1	1.3	1.0	2.0	90 1.8	91	,	7.7	1	1.0	1.0	3,3	90 2.5	91	1.3	1	1.0	1.0	1.0	90 1.5	91	0	7:0	1	1.3	1.0	1.0	90 2.3	16
	DISEASE	Leaf rust 1990	Leaf rust 1991	Net blotch 1990	Net blotch 1991	Scald 1990	Powdery mildew '90	Powdery mildew '91	Last must 1998	ACCT TENT TOOK	Lear rust 1991	Net Blotch 1990	Net Blotch 1991	Scald 1990	Powdery mildew '90	Powdery mildew '91	Leaf rust 1990	Leaf rust 1991	Net Blotch 1990	Net Blotch 1991	Scald 1990	Powdery mildew '90	Powdery mildew '91	Leaf rijst 1000	Total tube	real rust 1991	Net Blotch 1990	Net Blotch 1991	Scald 1990	Powdery mildew '90	Powdery mildew '91
BARLEY	VARIETY	Max							Custoe	200							UC 337							110 603							

Farmers Marketing Corporation is the proprietary owner and intended commercial user of Max barley. Regular employees of Farmers Marketing Corporation have developed this variety in their comprehensive cereal grain improvement program.